The Intelligent Use of Water™

RAIN BIRD

Simple To Set Timer New Installation Guide

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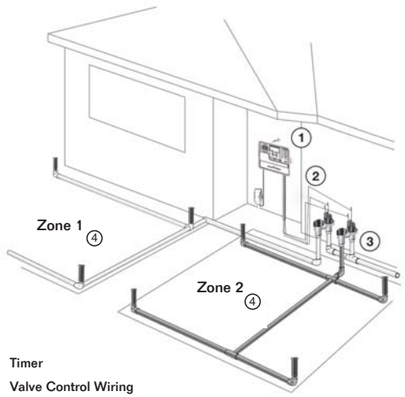
1 What is an Automatic Sprinkler System?

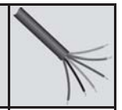
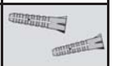


① Timer
② Valve Control Wiring
③ Valves
④ Sprinkler Zone
(Number of Zones vary by Timer Model)

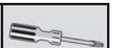
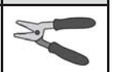
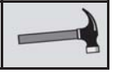
STOP **The SST Timer can be mounted INDOOR or OUTDOOR.**

2 What will you need?

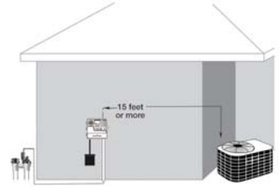
Supplies not included with timer

• Valve Control wire; for new systems 18 gauge color coded, multi-strand, direct-burial wire for runs less than 800 feet; 14 gauge for runs greater than 800 feet	
• Water tight splice connectors (gel caps)	
• Drywall anchors; optional	
• ¾" or 1" PVC electrical conduit; optional	

Tools you will need to install timer

• Phillips screwdriver	
• Wire strippers	
• Hammer	

3 Mounting your Timer to the wall



Choosing Timer location

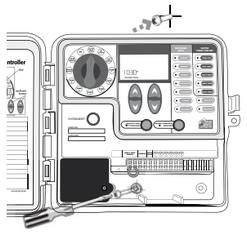
- Locate a spot for your Timer.
- Locate Timer so that it is convenient to run control wires.
- If using attached power cord, locate timer within 5 feet of an AC power outlet.
- Locate Timer at least 15 feet away from major appliances and air conditioners.

Mounting Timer to wall

① Drive a screw into the wall, leaving 1/8" gap between head and wall. (May also use supplied wall anchors if necessary)

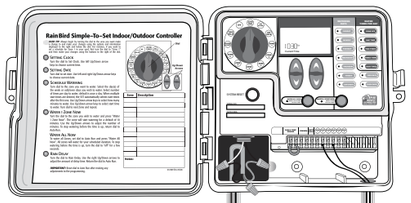
② Hang Timer on exposed screw.

③ Remove access cover at bottom of Timer and drive a screw through the center hole into wall.

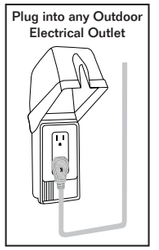


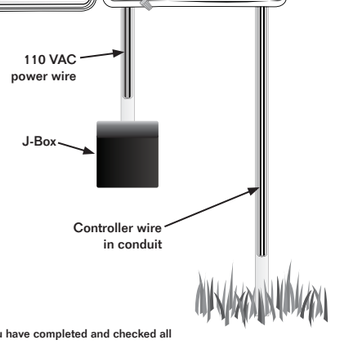
4 Wiring with Conduit

Below is a typical outdoor hard wired installation using electrical conduit. Check with your local building department or a licensed electrical contractor for assistance.



Power connection using included power cord





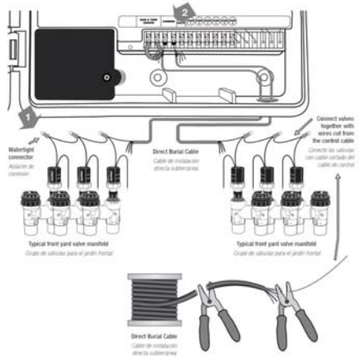
STOP **DO NOT plug in until you have completed and checked all wiring connections.**

5a Connecting the Valve Wires: Common

Common Wire Connection

① Connect one wire from each valve together with watertight splice connectors; either valve wire will work.

② Connect all wires to common terminals on timer.



STOP **The SST Series Timers can be used with most hydro-indexing valves. Please contact the valve manufacturer for more information. DO NOT connect more than one valve wire to each terminal. Wiring more than one valve to each terminal will damage the timer. Also, if you are using more than one timer, do not share "common" wires between them.**

USER TIP: **Use watertight splice connectors to prevent corrosion and avoid short circuits.**

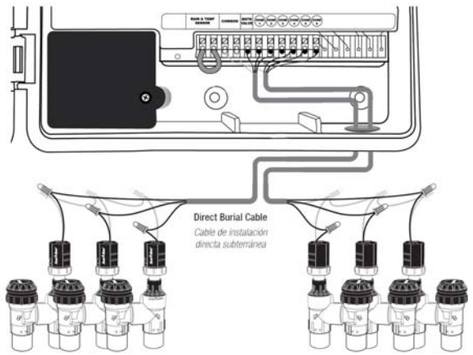
5b Connecting the Valve Wires: Control

Control Wire Connection

① Connect the second wire on each valve to a wire on the control cable; connect only one valve to each wire.

② Connect the other end of the wire to the desired zone on the Timer (1,2,3, etc.).

(Each numbered zone corresponds to the same number zone when programming timer)

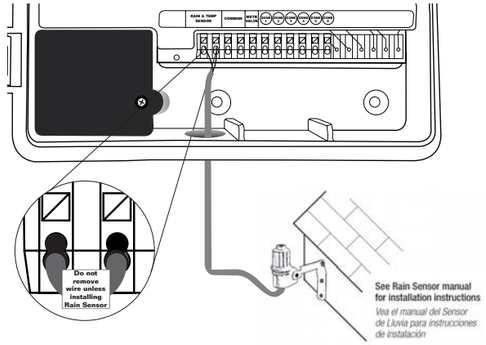


6 Connecting Rain Sensor

Included only on select models

① Remove the jumper wire from the Rain Sensor terminals.

② Connect both Rain Delay Sensor wires to the terminals marked RAIN SENSOR.



STOP **If you decide not to use a Rain Sensor with the timer, leave the wire jumper in place that connects the 2 terminals; timer will not work if wire jumper is removed and sensor is not connected.**

USER TIP: **To save water and money, you can also install a rain sensor. A rain sensor measures rainfall and prevents unnecessary watering.**

7 System Check Out

To make sure each system is functioning properly, cycle through each ZONE using the WATER 1 ZONE NOW feature:

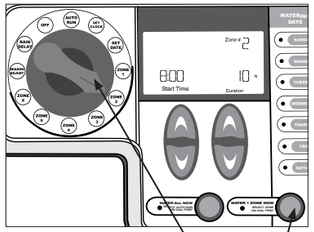
① Turn the dial to the ZONE you wish to test and press WATER 1 ZONE NOW.

② The ZONE will start watering for a default 10 minutes.

③ Use the Up/Down arrows to adjust the time.

④ To stop watering before the time is up, turn dial Auto Run.

⑤ Repeat on next ZONE until all have been checked.



Set dial to desired ZONE and press WATER 1 ZONE NOW

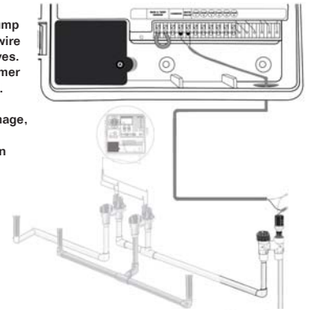
8 Master Valve or Pump Start Relay

① Connect the color-coded "hot" wire from the Master Valve or Pump Start Relay to the Timer terminal marked MASTER (MSTR) VALVE.

② Connect the common wire from the Master Valve or Pump Start Relay to the common wire coming from the station valves. This wire connects to the Timer terminal marked COMMON.

③ To avoid possible pump damage, connect a short "jumper" wire from any unused station terminal(s) to the nearest terminal screw in use. For example, if you have a 6-station timer with only 4 stations in use, route stations 5–6 to the nearest active station (in this case, 4).

This example shows what a Master Valve connection would look like. A Pump Start Relay would connect differently at the water source



STOP **SST Timers allow a master valve or pump start relay to operate whenever a valve is operating (pumps are used in some places to draw water from a well or other source).**

If you are activating a pump from the Timer, you must also install a Pump Control Relay.

USER TIP: **Make sure that the total draw of the Master Valve or Pump Start Relay plus the draw of the valve does not exceed 0.650 Amps at 24 VAC, 60 Hz.**

This Timer does not provide the main power for a pump.